

TECHNICAL ACTION

PSC ~~118~~ UNV
184

REQUEST (5) 10

2. Date

32

23 June 1954

25X1

4. Contractor	5. Address
6. Sub-Contractor	7. Address
8. Equipment RS-6A	9. Quantity Affected All
10 Purpose <input checked="" type="checkbox"/> Deviation Approval <input type="checkbox"/> Interpretation <input type="checkbox"/> Information <input type="checkbox"/> Recommendation	
11. Approval will affect, No Price (Increase-Decrease) No Delivery No Interchangeability	

ACTION I

SUBJECT: Changes in RS-6A equipments and specifications after submission of preproduction models.

It is the purpose of this TAR to consolidate on one document, the various changes and agreements reached with the customer.

All of the points discussed below have been previously requested either by TAR action or phone conversation, but since the original requests were made and the approval verbally received did not necessarily mean the request was approved exactly as presented. It is requested that confirmation of the following points be given by an additional action to this TAR.

3. Power Output: Transmitter RT-6A (Specification Paragraph 5.3.4)

- A.C. Operation: Minimum of 5 watts when operated from Power Supply RP-6, set at 120 V Position and with 120 V AC input to RP-6.
- D.C. Operation: Minimum of 3.5 watts with 5.7 V filament input.
- The limits of a & b above are to be replaced with a Power Output vs. Frequency chart as soon as possible based upon representative production run of equipments.
- In order to guarantee the 5 W minimum it was necessary to modify Xmtr circuit as follows:

- * Tube V101 Osc. type 6AG5 changed to 6AK6.
- Tube pin 2 (suppressor grid) grounded.
- Resistor R112 (1200 ohms) changed to 6800 ohms.
- Capacitor C102 (47 mmf) changed to 15 mmf.
- Capacitor C106 (5 mfd) changed to 0.5 mfd.

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ORIG COMP 35	OPI 56	TYPE 30
ORIG CLASS 11	PAGES 3	REV CLASS 11
JUST	NEXT REV	AUTH: HR 70-1

* Tube type change was acknowledged by letter dated 10 June 1954.

4. Receiver RR-6A Dial Calibration (Specification Paragraph 4.4.3.5)

Receivers with dial calibration errors not in excess of that which can be corrected by the fiduciary action are to be accepted provided the maximum dial allowable error does not exceed that as previously approved by TAR #20 for the RS-6 equipment. One of the stipulations of these approvals is that [] will use the Radio Condenser variable capacitors as supplied to the production line and from the vendor. Data is to be taken for dial calibration error for a group of 50 equipments for the Government's evaluation. [] is authorized to knife gangs after ordinary data taken, if necessary, in order to bring into limits which can be corrected by the fiduciary action and allowable dial calibration error.

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ACTION I (contd)5. Receiver RR-6A Signal to Noise Ratio (Specification Paragraph 4.6.3.1)

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is to use the present spec. limit of 2.0 uv for AM. It is evident from the pilot data that the equipments measured and by the method of measurement that the units failed pass this requirement. It has been established that the high signal to noise ratio of the lot run is attributed to the 60 cycle hum. Therefore, it will be permissible to record the signal to noise ratio as that actual noise remaining after the deducted measured 60 cycle hum. an alternate method is also permitted to measure signal to noise with the use of an auxillary filter to eliminate the 60 cycle hum. Establish max hum level.

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6. Receiver RR-6A Image Rejection Ratio (Specification Paragraph 4.6.7.1)

The limits as listed in "Tentative Specification for RS-6A" except item a changed from 55 db to 53 db and as approved by letter dated 2 February 1954 are to apply as follows.

- (a) Low frequency end of low band: 53 db
- (b) High frequency end of low band: 35 db
- (c) Low frequency end of high band: 40 db
- (d) 22 MC 25 db

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order to meet the 22 Mc, 25 db requirement it has been necessary for to incorporate following receiver circuit changes.

- (1) Cathode to ground Resistor R6 (at V1, Tube Type 5899) 120 ohm changed to 150 ohms.
- (2) Resistor R6 (150 ohms) shunted by added capacitor C59 33 mmf.

7. Receiver RR-6A Oscillator Radiation (Specification Paragraph 4.6.8.1)

Radiation measurement to be made in accordance with Spec. MIL-I-16910 (Ships). Limit of 40,000 microvolts for high band and 15,000 microvolts low band to apply. This check is to be made on a 1% basis for production equipments.

8. Receiver RR-6A Oscillator Frequency Pull (Specification Paragraph 4.6.15)

A limit of 4 KC at 19 MC is to apply.

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3. Order No. (s)		1. Request No.	
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PSC 114 UNV 184		REQUEST	Date 23 June 1954 25X1
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ACTION II

Navy Inspector Endorsement:

ACTION III

Approved by:

For the Government.